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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,891	06/17/2005	Johnathan A Napier	13478-00001-US	7537
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P O BOX 2207 WILMINGTON		ZHENG, LI		
WILMINGTON	N, DE 19099		ART UNIT	PAPER NUMBER
		1638		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/539,891	NAPIER ET AL.	
Examiner	Art Unit	
LI ZHENG	1638	

The MALLING DATE of this communication appears on the cover sheet with the correspondence address THE REPLY PELED 20 Mann's DOB FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. □ The riphy was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, a pleasant must interly life one of the following regises: (1) as a mentalement, afflowin, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (1) the application of the control of		El Zi leivo	1000
1. ☑ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandomment of this application, applicant must timely file one of the following replies: (1) an amendment, affidative, or other evidency, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 1.13t; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: a ☐ The period for reply expires	The MAILING DATE of this communication appe	ears on the cover sheet with the d	correspondence address
application, application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal (evi) in compliance with 37 CFR 4.1.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: a)	THE REPLY FILED <u>20 March 2008</u> FAILS TO PLACE THIS AF	PLICATION IN CONDITION FOR	ALLOWANCE.
b)	application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, which places the with 37 CFR 41.31; or (3) a Request
no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Notice if box 1; is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILE DWITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee have been filed is the date for micro for extension for the solution of the fee. The appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the filed. The appropriate extension fee have been filed as the date of purpose of the filed form. The filed form of the filed of the filed filed form of the filed fi	a) The period for reply expiresmonths from the mailing	date of the final rejection.	
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL. 2. The Notice of Appeal was filed on	no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection.
 2. ☐ The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37(a)), to avoid dismissal of the date of filing the Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS 3. ☐ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below); (b) ☐ They raise the issue of new matter (see NOTE below); (c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: (See 37 CFR 1.116 and 41.33(a)). Д Pappeal: (See 37 CFR 1.116 and 41.33(a)). Applicant's reply has overcome the following rejection(s): (See 37 CFR 1.16 and 41.33(a)). (See 37 CFR 1.16 and 41.35(a)). Applicant's reply has overcome the following rejection(s): (See 37 CFR 1.16 and 41.35(a)). (See 37 CFR 1.16 and 41.36 a). (See 37 CFR 1.16 and 51 a	Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origi than three months after the mailing dat	of the fee. The appropriate extension fee nally set in the final Office action; or (2) as
filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(a)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS 3.		liance with 37 CFR 41.37 must be	filed within two months of the date of
(a)	filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed w	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the appeal. Since a
(c)	(a) ☐ They raise new issues that would require further co	nsideration and/or search (see NO	
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4.	(c) They are not deemed to place the application in bet appeal; and/or	ter form for appeal by materially red	
5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1-5.7-9.26. Claim(s) withdrawn from consideration: 10-25. AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)	-	corresponding number of finally reje	ected claims.
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 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will <u>not</u> be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)	how the new or amended claims would be rejected is provided that the status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1-5,7-9, 26.		i pe entered and an explanation of
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		(PTO/SB/08) Paper No(s)	
		/Elizabeth F McFlwain/	

Continuation of 11. does NOT place the application in condition for allowance because:

1. Claims 1-5 and 7-9 remain and claim 26 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention, for the reasons of record stated in the Office action mailed January 23, 2008. Applicants traverse in the paper filed March 20, 2007. Applicants' arguments have been fully considered but were not found persuasive.

Applicants present similar arguments to those in the response filed 11/9/07, therefore for the similar reasons as discussed in the previous office action, the rejection is maintained.

Further, Applicants argue that the present application directs to a process rather than the nucleotide sequence that are used for practicing the claimed process and that a particular nucleic acid is not essential to the claimed method (response, page 5, last paragraph and page 6, 1st paragraph). However, the nucleotide sequences used in the process still needs to meet the written description requirement. As discussed previously, however, only very limited number of genes encoding delta-5- and delata-8-desaturases are disclosed in the prior art and they are not considered be representative of the genus. Further, delta-9-elongase is not well known in the art at the time of the instant invention. Therefore, it is concluded that Applicants are not in possession of a method of using any delta-5-, delata-8-desaturases and delta-9-elongases.

2.Claims 1-5 and 7-9 remain and claim 26 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for accumulate C20 polyunsaturated fatty acids in transgenic plant expressing nucleotide sequences encoding SEQ ID NO: 2,4 and 6, does not reasonably provide enablement for any transgenic plant expressing any delta-9-elongase, any delta-5- and delta-8-desaturase. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims,for the reasons of record stated in the Office action mailed January 23, 2008. Applicants traverse in the paper filed March 20, 2007. Applicants' arguments have been fully considered but were not found persuasive.

Applicants present similar arguments to those in the response filed 11/9/07, therefore for the similar reasons as discussed in the previous office action, the rejection is maintained.

Further, Applicants argue that Table 1 at page 50 clearly demonstrates that the triple transformed plants produced not only C20 polyunsaturated fatty acid but also various other compounds including C16 and C18 fatty acids as enumerated in Table 1(response, page 7, last paragraph). However, in Table 1, it shows that the triple transgenic plant produced less C16 and C18 fatty acids such as 16:0, 16:1, 18:0, 18:2n-6 and 18:3n-3 than wild type control.